



**Curriculum Description for London IGCSE**

**CHEMISTRY (4335)**

There are two routes of assessment

- 100% examination
- 80% examination and 20% coursework

**Summary of Scheme of Assessment**

<b>Paper/Component</b>	<b>Mode of Assessment</b>	<b>Weighting</b>	<b>Length</b>
1 OR	Examination Paper 1F, targeted at grades C-G (Foundation Tier)	80%	1.5 hours
2	Examination Paper 2H, targeted at grades A*-D (Higher Tier)	80%	2 hours
3 OR	Examination Paper 3, targeted at grades A*-G (common to both tiers)	20%	1.25 hours
4	Coursework, targeted at grades A*-G (common to both tiers)	20%	As advised

*Students are entered at either Foundation Tier or Higher Tier, in consultation with their subject teacher.*

## **SPECIFICATION CONTENT**

### 1. Principles of Chemistry

- Atoms
- Atomic structure
- Relative formula and molecular masses
- Chemical formulae and chemical equations
- Ionic compounds
- Covalent substances
- Electrolysis
- Metallic crystals

### 2. Chemistry of the elements

- Periodic Table
- Group I elements
- Group II elements
- Group VII elements
- Oxygen and oxides
- Sulphur and nitrogen
- Hydrogen
- Transition metals – iron and copper
- Reactivity series
- Preparing and analyzing salts

### 3. Organic Chemistry

- Alkanes
- Alkenes
- Ethanol

### 4. Physical Chemistry

- States of matter
- Acidity, Alkalinity and neutralization
- Energetics
- Rates of reaction
- Equilibria

### 5. Chemistry in Society

- Extraction and uses of metals
- Natural oil and gas
- Synthetic polymers
- The manufacture of some important chemicals

### **Additional Information**

Grades for Higher Tier range from A\*-D

Grades for Foundation Tier range from C-G

Practical Paper is **COMPULSORY** and students can either sit for it in the form of Coursework (under the supervision of the teacher) or Written Paper.